

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP2004/013742

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H03D1/22

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H03D H03B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 3 962 551 A (GAY MICHAEL J) 8 June 1976 (1976-06-08) cited in the application column 6, lines 1-56; figure 8	1-8
A	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 13, 5 February 2001 (2001-02-05) & JP 2000 286643 A (TOSHIBA CORP), 13 October 2000 (2000-10-13) abstract	1
A	US 5 220 607 A (REBEL REIMUND) 15 June 1993 (1993-06-15) cited in the application figure 3	1

 Further documents are listed in the continuation of box C. Patent family members are listed in annex.

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Date of the actual completion of the international search

1 April 2005

Date of mailing of the international search report

11/04/2005

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Information on patent family members

International Application No.

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Patent document cited in search report	Publication date	Patent family member(s)		Publication date
US 3962551	A 08-06-1976	DE 2513228	A1 09-10-1975	
		FR 2266380	A1 24-10-1975	
		GB 1494570	A 07-12-1977	
		JP 1191200	C 29-02-1984	
		JP 50131701	A 18-10-1975	
		JP 58003424	B 21-01-1983	
JP 2000286643	A 13-10-2000	NONE		
US 5220607	A 15-06-1993	DE 4041852	A1 02-07-1992	
		DE 59107651	D1 09-05-1996	
		EP 0492202	A2 01-07-1992	